

# AWS-3 Child and Family Protection

C.I.P.S

Child Internet Protection Service

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## AWS-3 Child and Family Requirements

WT Docket Nos. 07-195 and 04-356

### FCC SEEKS COMMENT ON PROPOSED RULE CHANGES FOR ADVANCED WIRELESS SERVICES (AWS) SPECTRUM IN THE 1.9 AND 2.1 GHz BANDS

The Further Notice also proposes requiring the licensee for the 2155-2180 MHz spectrum to provide – using up to 25 percent of its wireless network capacity – free, two-way broadband Internet service at engineered data rates of at least 768 kbps downstream. Additional obligations associated with the licensee's free broadband service would include a requirement to provide a network-based filtering mechanism for the free Internet service in order to protect children and families, and a requirement that the network allow for the use of open devices.

# Child and Family Internet Protection

Remarks of Commissioner Deborah Taylor Tate  
At PointSmart, ClickSafe, Internet Safety Summit  
Washington, D.C.  
June 10, 2008

“Certainly the Internet enables our children to broaden their educational, social and geographic horizons beyond our wildest dreams. Let’s just make sure they have the tools and the knowledge to protect themselves in their new and very real, digital, wireless, instantaneous, online world”.

Remarks of  
Jonathan S. Adelstein  
Commissioner, Federal Communications Commission  
*PointSmart, ClickSafe*: Summit on Children’s Online Safety and Literacy  
June 10, 2008

“Parents desperately need and want information and tools to help them protect and teach their children the safe and healthy use of technology and the Internet”.

Cox Communications’ 3rd Annual Internet Safety Summit  
Washington, D.C.

Commissioner Deborah Taylor Tate  
July 22, 2008

“I believe parents have a responsibility to parent and are the first line of defense for their families. However, parents cannot do it alone. As the source of an endless highway of information and entertainment, cable and Internet providers also have a responsibility to assist families in educating children about the dangers of the Internet, especially the potential dangers of online chatting and posting personal information on blogs and social networking sites”.

# Child and Family Internet Protection

Statement of Commissioner Deborah Taylor Tate  
At *En Banc* Hearing on  
Broadband and the Digital Future  
Carnegie Mellon University  
Pittsburgh, Pennsylvania  
July 21, 2008

Another area of immense interest not only to me, but to parents across this country, is ensuring child online safety. The scourge of online child pornography on networks continues to be a threat, and the “virtual world” our children inhabit is actually a very real world 24/7.

To stem the proliferation of piracy and child pornography, internet service providers must be free to find, identify and purge such content from their networks. Collaborative, industry based solutions and public-private partnerships are the most effective way to dealing with these problems, not government regulatory action.

Remarks of FCC Chairman Kevin J.  
Martin  
CTIA Wireless 2008  
Las Vegas, NV  
April 1, 2008

In conclusion, let me say that, at the Commission, our job is to provide ample spectrum for a range of wireless services and a regulatory framework that allows you – the entrepreneurs, engineers, and network operators of the world to provide lower prices, better and more innovative services, and more choice to wireless consumers.

**“Provide lower prices, more and better innovative services and more choices for the wireless consumer”.**

#### ADVANCED WIRELESS SERVICES (AWS) SPECTRUM IN THE 1.9 AND 2.1 GHz BANDS

- Awarded bidder to provide 25 Percent usage toward a free Nationwide Broadband Internet Service.
- Network filtering mechanism for the free Internet Service in order to protect Children and Families.
- Network allow for the use of open devices.

### **AWS-3 Challenges**

- ISP build out cost to support the 1.9 and 2.1 GHz bands.
- ISP's have no return on investment for a free broadband service.
- Advertising and Marketing investments do not meet the build out cost for ISP's.
- Lower access speeds (768kbs) will detour paid subscribers of higher access speeds to adopt.
- Today's standard Network URL Filters do not protect children and families.

## AWS-3 Vision

- ISP's provide the broadband service for free, but charge a subscription fee for a SaaS Child and Family protection. This will provide a feasible line of business to generate revenue in return on the investment cost of build out.
- Access Speeds will be increased with the consumers subscribing to a Family and Child Protection service. The fee for this service would pay for the cost of High Speed network infrastructure.

## AWS-3 Vision

- Better and More innovated (SaaS) services for the protection of children on the Internet.
- Parents that adopt this service will have more than standard network based URL filters which does not protect children or families today.
- Provide choices for the wireless consumers. This puts the decision in parents hands and does not censorship individuals that do not want it.

## AWS-3 Strategy

- FCC adopts SaaS security as a requirement to AWS-3 band auction. To include child and family authentication, content filtering and monitoring of Internet, Chat Room and Instant Messaging services for children under 18 years old.
- Outline to ISP's that the SaaS security services would be an optional service to families that sign up to use the AWS-3 nationwide broadband bands.
- Outline that the SaaS security services fees would generate the revenue for the AWS-3 broadband infrastructure and operational cost.

## AWS-3 Solution

SaaS systems and methods for preventing the transmission and reception of malicious, objectionable and bad behavioral content.

### SYSTEMS

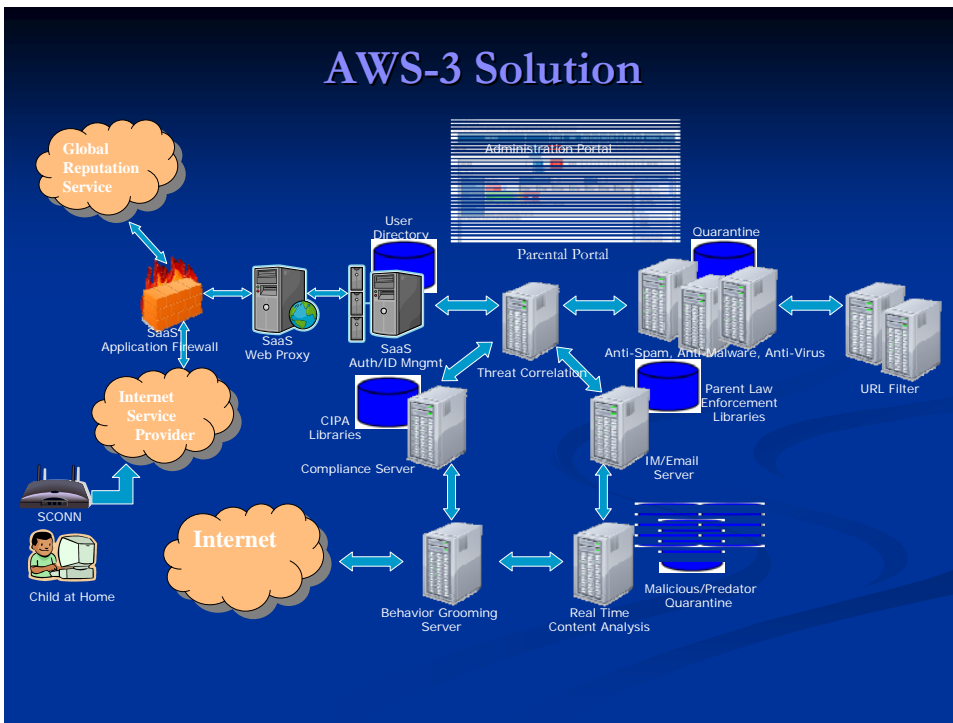
- Includes H/A architecture of Commercial Software Solutions delivered as a Managed Service.
- Includes Appliance and Software based solutions.
- Includes Best of Breed Industry solutions based on functionality (Authenticate, Monitor, Defend, Manage, and Report).
- Includes residential AWS-3 wireless device.

## AWS-3 Solution

SaaS systems and methods for preventing the transmission and reception of malicious, objectionable and bad behavioral content.

## METHODS

- Includes policies and security for social and interactive web sites for Predator, Sexual and Hate behaviors.
- Includes policies and security for URL, IM, Chat Email and audio/video.
- Includes policies and security for user profiles private or public
- Includes policies and security for sharing Personally Identifiable Information (PII)
- Includes policies and security for parents to view, receive or gets alerts on the child's Internet use.



## SaaS Parental Controls

- Browser based Web Portal Access for Parents
- Web Filtering to control web access
- Reputation based filtering for real-time protection against malicious behavior
- Anti-Malware/spyware Protection – proactive intent based protection
- Policy Based rule creation to enforce child security protection.
- Informative Reports and Dashboards
- Parental and Child based authentication
- Notifications and Alerts

## SaaS Market Forecast

Worldwide Web Security Revenue Forecast by Segment, 2006–2012 (\$M)								
	2006	2007	2008	2009	2010	2011	2012	2007–2012 CAGR (%)
Software	940.0	1,059.0	1,165.0	1,266.2	1,350.8	1,425.8	1,479.8	6.9
Appliance	186.4	256.7	333.6	425.1	518.0	628.4	745.4	23.6
Hosted services	34.5	49.3	79.2	124.5	193.9	275.0	365.0	49.2

IDC: Fastest growing sector in web security (49% CAGR)

IDC: Will compose half of the web appliance market by 2012

Gartner: Cloud-based services will more than triple in most security markets by 2013

## Next Steps

- Provide a demo of a SaaS solution for Child and Family protection to the Commissioners and Chairman.
- Have the FCC adopt the SaaS solution to the AWS-3 band auction.
- Outline the solution to all ISP bidders.
- Assist ISP's with the examples of SaaS solutions.

Questions?